Name of work:- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15

EMB

Second & Final Bill

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BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ELECTRICAL DIVISION

Name of work:- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15

Job Code No:-013-22-000006

Measurement Book

PAYMENT CERTIFICATE

Second & Final Bill

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BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ELECTRICAL DIVISION

MEASUREMENT BOOK

Name of work: :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15

Name of Contractror of nature of Agency:- M/S. Nagaraju Lingaiah(vedha Electricals)

Job Code No:-013-22-000006

Agreement No:EE/Ele/DZ/TEND/AGR/000013/2022-23 **Date:**17.05.2022

Ref no and Date of commencement of work:-:- EE/Ele/DZ/TEND/WO/000017/22-23 Date/21/05/2022

Estimate Amount: Rs. 17469000.00

Administartive Sanction No:EE/(Elec)/DZ/TEND/AS/02/2021-22 Date:12.04.2022

Technical sanction No: EE/(Elec)/DZ/TEND/TS/13/2021-22 Date:05-01-2022

Measurement Book No: **Page No:**

Bill NO :- 1st & Final Bill

Item No	Sl. No.	Description	Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
1		Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 90 Watts	Nos	1727	7661.20	13230892.40
2		Supplying and Fixing of. mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	each	1727	893.45	1542988.15
3		Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	each	1727	187.25	323380.75
		POLE NO	**ADDRESS**			
	1	TC16/MPS/13/CGB /04/S	#2026,1st Cross,Pipe Line Road			
	2	013/027/15	#2021,1st Cross,Pipe Line Road,Prasanth Nagar,Bangalore -560057			
	3	013/028/28	#2021,1st Cross,Pipe Line Road,Prasanth Nagar,Bangalore -560057			
	4	013/032/16	#4,Prasanth Nagar,Ravindra Nagar ,Reddy			

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EE (Ele) DZ

16/6/22

For Vedha Electricals

Consultant

Contractor
Proprietor

JE/AE(Ele)

JUNIOR ENGINEER (Ele) 16/6/22
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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Name of work: :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15						
Name of Contractror of nature of Agency:- M/S. Nagaraju Lingaiah(vedha Electricals)						
Job Code No:-013-22-000006						
Item No	Sl. No.	Description	Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
4		Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm	Mtrs	5000	9.63	48150
		1727Nos x1.5mtr x2Runsx=5181Mtrs bill Restricted to 5000Mtrs				

ASST. EXECUTIVE ENGINEER
Bruhath Bangalore Mahanagara
Dasarahalli Zone, Bangal

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For Vedha Electricals

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16/AE(Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore 16/6/22

AEE(Ele)

16/6/22
ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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Name of work: :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15

Name of Contractror of nature of Agency:- M/S. Nagaraju Lingaiah(vedha Electricals)

Job Code No:-013-22-000006

Item No	Sl. No.	Description	Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
5		Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA	each	50	4847.10	242355
6		Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	each	50	2197.78	109889

	POLE NO	ADDRESS
1	CMC/11/PN/RMR/03/S	Prashanth Nagar, Ramesh Road
2	13/PN/MPE/TC08/SRR/06/S	Ramesh Road,1st Main,5th Cross
3	13/MS/MPE/TC161/PLP/10/S	Rathesh Photo Studio Pakka
4	13/MN/MCE/03/00/06/S	Maheshwari Nagar,7th Cross
5	13/KN/MPE/TC11/03/00/05/S	Mallasandra,1st Cross,Near Pooja Ladies Tailor
6	TC238/MPE/13/MSR/04/S	Prashanth Nagar, Mallasandra,2nd Cross
7	13/SN/MPE/TC84/00/03/10/S	Santhosh Nagar,Mallasandra,4th Cross
8	13/RN/MPE/TC287/00/04/04/S	Mallasandra,5th Cross
9	13/MS/TC37/MPE/00/04/01/S	Ashwathkatte Road,4th 'E' Cross
10	13/MS/TC37/MPE/00/04A/01/S	Ashwathkatte Road,(Old 1st Cross)4th 'A' Cross
11	CE/14/TC/SL/02/00/15/S	#323,9thCross,Soundarya 2/0,2nd Main
12	14/SL/TC165/KUF/00/11/04/S	2nd Main,11th Cross,Soundarya 2/0
13	CE/14/TC/SL/01/00/21	1st Main,13th Cross,Soundarya 2/0
14	CE/14/TC/SMR/00/04	1st 'A' Main,MinakshiL/O,Soundarya 2/0
15	CE/14/TC/CMR/00/88/S	1st Main,2nd Cross,Vishwa Barathi L/O
16	14/VS/TC51/KUF/00/03/09/S	#19,5th Cross,Vishweshwarayya L/O
17	CE/14/TC/NMH/00/03/04/S	Sahyadri L/O,3rd Cross

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Dasarahalli Zone, Bangalore

For Vedha Electricals

Contractor

JUNIOR ENGINEER (E/e) 16/6/22
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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Name of work: :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 13,14 & 15						
Name of Contractror of nature of Agency:- M/S. Nagaraju Lingalah(vedha Electricals)						
Job Code No:-013-22-000006						
Item No	Sl. No.	Description	Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
7		Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	275	160.50	441375
8		Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required On wall /Structure 6 sqmm to 16 sqmm	Mtrs	275	32.10	
		For Switch Box Connection 50X 5.5Mtrs=275Mtrs				

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Bruhath Bangalore Mahanagara Palike,
Dasarahalli Zone, Bangalore

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Bangalore
Consultant

For Vedha Electricals

Contractor

JE/AE(Elo) AEE(Elo)

JUNIOR ENGINEER (Elo)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore 16/6/22

16/6/22
ASST. EXECUTIVE ENGINEER (Elo)
Bruhath Bangalore Mahanagara Palike,
Dasarahalli Zone, Bangalore

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Name of work: :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places In Ward no 13,14 & 15

Name of Contractror of nature of Agency:- M/S. Nagaraju Lingaiah(vedha Electricals)

Job Code No:-013-22-000006

Item No	Sl. No.	Description		Unit	Present Measurements		
					Qty	Tender Full Rate	Cost
9		1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm^2 (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm^2 (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)		Km	1.571	157290	24710259
10		Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)		Km	1.571	24041.83	37769.71
		SHETTYHALLI LAKE ROAD					
	1	MPE/13/RMR/01/S	MPE/13/RMR/02/S	30MTR			
	2	MPE/13/RMR/02/S	MPE/13/RMR/03/S	33MTR			
	3	MPE/13/RMR/03/S	MPE/13/RMR/04/S	35MTR			
	4	MPE/13/RMR/04/S	MPE/13/RMR/05/S	36MTR			
	5	MPE/13/RMR/05/S	MPE/13/RMR/06/S	32MTR			
	6	MPE/13/RMR/06/S	MPE/13/RMR/07/S	35MTR			
	7	MPE/13/RMR/10/S	MPE/13/RMR/11/S	33MTR			
	8	MPE/13/RMR/11/S	MPE/13/RMR/12/S	32MTR			
	9	MPE/13/RMR/12/S	MPE/13/RMR/13/S	34MTR			
	10	MPE/13/RMR/13/S	MPE/13/RMR/13/S	35MTR			
	11	MPE/13/RMR/12/S	MPE/13/RMR/13/S	36MTR			
	12	MPE/13/RMR/12/S	MPE/13/RMR/13/S	38MTR			
	13	MPE/13/RMR/12/S	MPE/13/RMR/13/S	32MTR			
	14	MPE/13/RMR/12/S	MPE/13/RMR/13/S	35MTR			
	15	MPE/13/RMR/12/S	MPE/13/RMR/13/S	34MTR			
	16	MPE/13/RMR/12/S	MPE/13/RMR/13/S	33MTR			
	17	MPE/13/RMR/12/S	MPE/13/RMR/13/S	31MTR			

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Bruhath Bangalore Mahanagara
Dasarahalli Zone, Bangalore

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Bruhath Bangalore Mahanagara Palike

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ASST. EXECUTIVE ENGINEER (E
Bruhath Bangalore Mahanagara P
Dasarahalli Zone, Bangalo

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